

*If you are using a printed copy of this procedure, and not the on-screen version, then you **MUST** make sure the dates at the bottom of the printed copy and the on-screen version match. The on-screen version of the Collider-Accelerator Department Procedure is the Official Version. Hard copies of all signed, official, C-A Operating Procedures are kept on file in the C-A ESHQ Training Office, Bldg. 911A*

C-A OPERATIONS PROCEDURES MANUAL

14.13.1 Operational Control Record for Beam Stops & Collimators

Text Pages 2 through 3

Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
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Approved: Signature on File _____
 Collider-Accelerator Department Chairman Date

R. Karol

14.13.1 Operational Control Record for Beam Stops & Collimators

BNL Environmental Management System Operational Controls Form

Operational Control for Significant Environmental Aspects:	Completed by: R. Karol Date: Jan. 4, 2006
1. Operation(s): C-A Beam Stops / Collimators	
2. Activity(ies): <ul style="list-style-type: none">▪ Radionuclide generation in surrounding soils▪ Radionuclide generation in air in tunnel w/ potential for release of radionuclides to atmosphere	
3. Operational Controls (technological, operational, procedural operating criteria): <ul style="list-style-type: none">▪ Accelerator Safety Subject Area▪ C-A OPM 10.1, Occurrence Reporting and Processing of Significant Operations Information▪ Geo-membrane placed cap over areas of maximum activation.▪ Groundwater well results that indicates effectiveness of control.▪ Tier I program and self-evaluations▪ C-A OPM 2.28, C-A Procedure for Work Planning and Controls for Operations	
4. Maintenance Plan(s): <ul style="list-style-type: none">▪ Membrane Area Inspections▪ Groundwater monitoring well maintenance plan, which is contained in site-wide GW monitoring plan performed by EWMSD.▪ Removable Soil Sample Program (C-A OPM 9.5.15, Sampling Activated Soil Areas Near Known Beam Loss Locations).	
5. Actions to be Taken if Controls Fail: <ul style="list-style-type: none">▪ See Groundwater Contingency Plan that contains steps taken if monitoring well indicates cap failure via unexpectedly high contaminant concentrations.▪ If periodic air monitoring indicates unexpectedly high airborne contaminant concentrations, or an accidental release occurs, EPA notification as required per conditions in permit BNL-188-01 (AGS) and BNL-389-01(RHIC).▪ See C-A OPM 3.0, Local Emergency Plan for the C-A Department	

6. Records:

- Operational Control Form
- Process Assessment Form / Corrective Action, P2 Measures, and Assessment, Prevention & Control Initiatives Tracking Database
- C-A Family ATS documentation on completion of Environmental Management Program, Section 10 Tasks
- Geo-membrane cap inspection records
- Groundwater and activated soil monitoring data
- Environmental monitoring data
- ORPS report (for qualifying liquid spills only)
- Periodic air sample data
- Tier I Inspection records / Tracking Database

7. Responsibilities: (a) to ensure controls are in place; (b) to ensure controls keep working; (c) to take action when controls fail; (d) to create and keep records relative to operational controls

Name	Responsibility
C-A FES Section	Verify Membrane Integrity.
C-A ESHQ Division	Ensure periodic tunnel air monitoring is conducted.
C-A ESHQ Division	Ensure periodic activated soil samples are checked.
EWMSD	Collect and Analyze Groundwater Samples, Maintain GW records
EWMSD	Report environmental monitoring data
Tier I Inspection Committee	Tier I Documentation in ATS

8. Training:

Name	Training	Date
EWMSD Field Sampling Team	Training on sampling SOPs	N/A
Building Staff	See also: EMS Training package for this operation	N/A